

Human Cyclooxygenase 2 ELISA Kit | COX2 elisa kit

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CATALOG #
AAA86884

REACTIVITY
Human

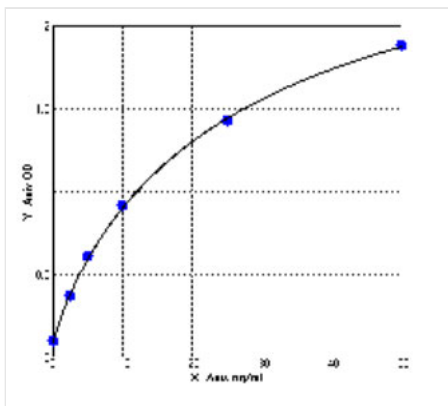
PRODUCT SYNONYMS

Cyclooxygenase 2; Human Cyclooxygenase 2 ELISA Kit; COX2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of COX-2. No significant cross-reactivity or interference between COX-2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COX-2 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive or Sandwich
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COX2 elisa kit	Principle of the Assay: COX-2 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for COX-2. Standards or samples are then added to the microtiter plate wells and COX-2 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of COX-2 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for COX-2 are added to each well to "sandwich" the COX-2 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain COX-2 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COX-2 concentration in each sample is interpolated from this standard curve. Intended Uses: This COX-2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human COX-2. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for COX2 elisa kit	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	181254
NCBI GeneID	5743
Molecular Weight	68,996 Da
NCBI Official Full Name	cyclooxygenase-2
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
NCBI Official Symbol	PTGS2
NCBI Official Synonym Symbols	COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS
NCBI Protein Information	prostaglandin G/H synthase 2; PHS II; PGH synthase 2; cyclooxygenase 2b; prostaglandin H2 synthase 2
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Gene Name	PTGS2
UniProt Synonym Gene Names	COX2; COX-2; PGH synthase 2; PGHS-2
UniProt Entry Name	PGH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cox2-human-elisa-kits/cyclooxygenase-2/86884>